

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 501)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94V0

-CONTACT MATERIAL: PHOSPHOR BRONZE,  
GOLD OVER NICKEL

-ACCESSORIES: STEEL FOR METAL BRACKETS,  
cadmium plated yellow passivation  
THERMOPLASTIC UL94V0 FOR PLASTIC BRACKETS

BRASS FOR OTHERS ACCESSORIES,  
cadmium plated yellow passivation

-SHELLS: STEEL,cadmium plated yellow passivation

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A

-CONTACT RESISTANCE: <=7.3 m Ohms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/56

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 56 DAYS

SALT SPRAY 48 HOURS

MECHANICAL CHARACTERISTICS

RETENTION AGAINST TORQUE: -Threaded insert:0.7 N.m min

-Female screw:0.5 N.m min

# DBML25S500M

Series

Shell size: **E A B C D**  
(see sheet 3)

Front accessory definition  
(see sheet 2)

- Blank** :without accessory
- L** :threaded insert M3
- O** :threaded insert UNC 4-40
- V** :female screw UNC 4-40

Layout of contacts (see sheet 3)

**9,15,25,37,50**

Contacts

- S** :Socket

Termination type

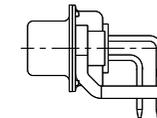
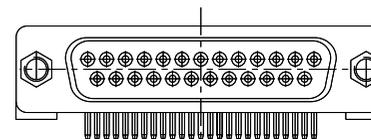
- 5** Right angle/Europe standard

Plating

- 00** Right angle 500 matings/unmatings
- 43** Right angle 500 matings/unmatings  
for harsh environment

PCB accessories definition(see sheet 2)

- Blank** :Plastic brackets
- C** :Without brackets
- M** :Metal brackets

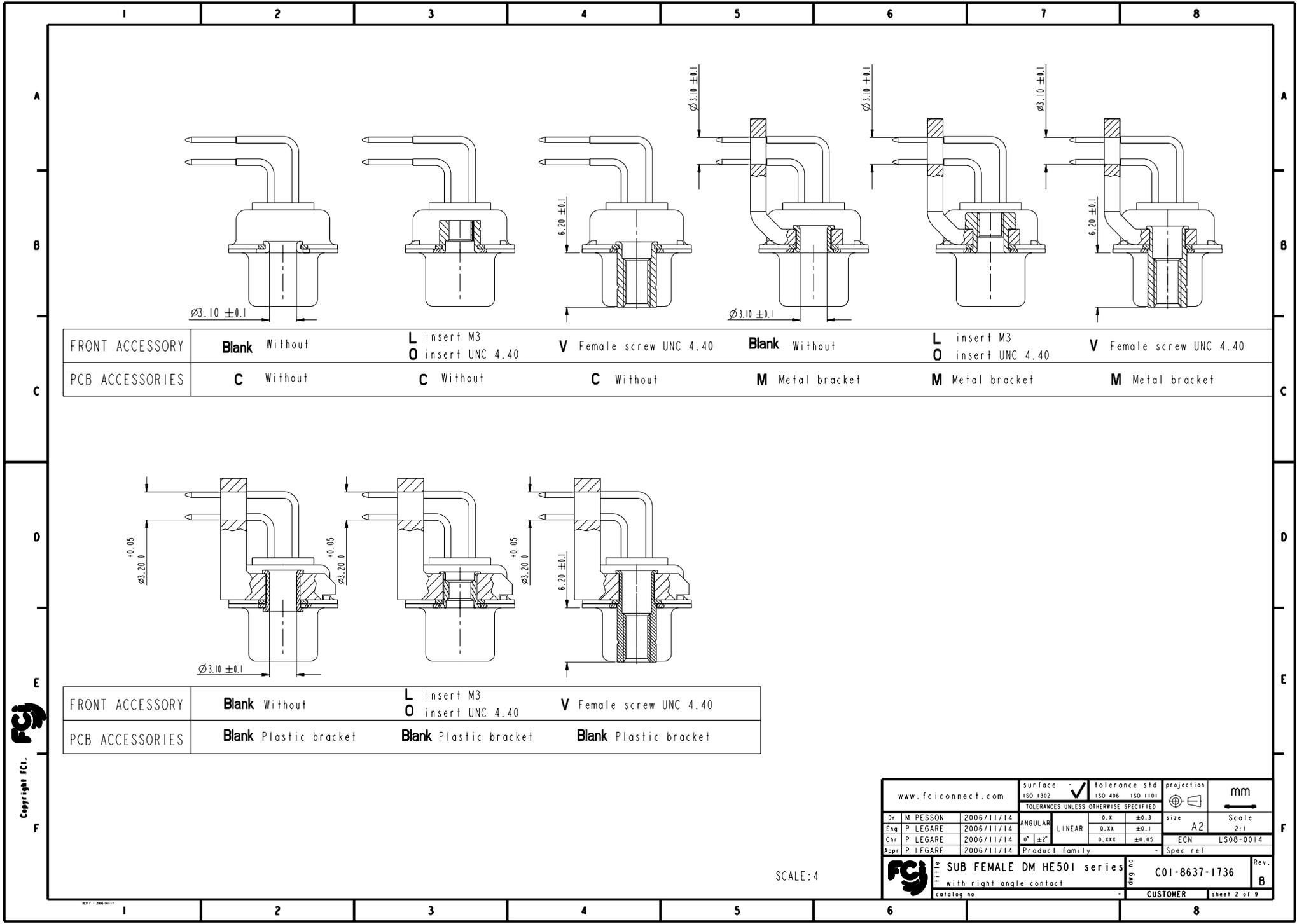


25 WAY for Example

rev	acc no	dr	date
A	LS08-0014	MPE	2006/11/14
B	LS08-0014	MPE	200/01/17
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com		surface	tolerance std	projection	mm
		ISO 1302	ISO 406 ISO 1101		
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	size A2 Scale 2:1
Eng	P LEGARE	2006/11/14	0.xx	±0.3	
Chr	P LEGARE	2006/11/14	0.xxx	±0.1	
Appr	P LEGARE	2006/11/14	0.xxx	±0.05	ECN LS08-0014
		Product family	Spec ref		
		SUB FEMALE DM HE501 series		ang no	Rev.
		with right angle contact		C01-8637-1736	B
catalog no		CUSTOMER		sheet 1 of 9	

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FRONT ACCESSORY	<b>Blank</b> Without	<b>L</b> insert M3 <b>O</b> insert UNC 4.40	<b>V</b> Female screw UNC 4.40	<b>Blank</b> Without	<b>L</b> insert M3 <b>O</b> insert UNC 4.40	<b>V</b> Female screw UNC 4.40
PCB ACCESSORIES	<b>C</b> Without	<b>C</b> Without	<b>C</b> Without	<b>M</b> Metal bracket	<b>M</b> Metal bracket	<b>M</b> Metal bracket

FRONT ACCESSORY	<b>Blank</b> Without	<b>L</b> insert M3 <b>O</b> insert UNC 4.40	<b>V</b> Female screw UNC 4.40
PCB ACCESSORIES	<b>Blank</b> Plastic bracket	<b>Blank</b> Plastic bracket	<b>Blank</b> Plastic bracket

www.fciconnect.com		surface - ISO 1302	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr	M PESSON	2006/11/14	ANGULAR	0.X ±0.3
Eng	P LEGARE	2006/11/14	LINEAR	0.XX ±0.1
Chr	P LEGARE	2006/11/14	0° ±2°	0.XXX ±0.05
Appr	P LEGARE	2006/11/14	Product family	- Spec ref
<b>SUB FEMALE DM HE501 series</b> with right angle contact catalog no				ang no <b>C01-8637-1736</b> Rev. <b>B</b>
			CUSTOMER	sheet 2 of 9

SCALE: 4

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PART NUMBER	FRONT ACCESSORY	PCB ACCESSORY
D*MxxS500C	without	without
D*MLxxS500C	insert M3	without
D*MOxxS500C	insert UNC 4.40	without
D*MVxxS500C	female screw UNC 4.40	without
D*MxxS500M	without	Metal bracket
D*MLxxS500M	insert M3	Metal bracket
D*MOxxS500M	insert UNC 4.40	Metal bracket
D*MVxxS500M	female screw UNC 4.40	Metal bracket
D*MxxS500	without	Plastic bracket
D*MLxxS500	insert M3	Plastic bracket
D*MOxxS500	insert UNC 4.40	Plastic bracket
D*MVxxS500	female screw UNC 4.40	Plastic bracket

shell size	Contact number
*	XX
E	09
A	15
B	25
C	37
D	50

PART NUMBER	FRONT ACCESSORY	PCB ACCESSORY
D*MxxS543C	without	without
D*MLxxS543C	insert M3	without
D*MOxxS543C	insert UNC 4.40	without
D*MVxxS543C	female screw UNC 4.40	without
D*MxxS543M	without	Metal bracket
D*MLxxS543M	insert M3	Metal bracket
D*MOxxS543M	insert UNC 4.40	Metal bracket
D*MVxxS543M	female screw UNC 4.40	Metal bracket
D*MxxS543	without	Plastic bracket
D*MLxxS543	insert M3	Plastic bracket
D*MOxxS543	insert UNC 4.40	Plastic bracket
D*MVxxS543	female screw UNC 4.40	Plastic bracket

CROSS REFERENCES HE501 and FCI

HE501 P/N	FCI P/N	FRONT ACCESSORY	PCB ACCESSORY
HE501PxxVS6	D*MxxS500	without	Plastic bracket
HE501MxxVS6	D*MxxS500M	without	Metal bracket

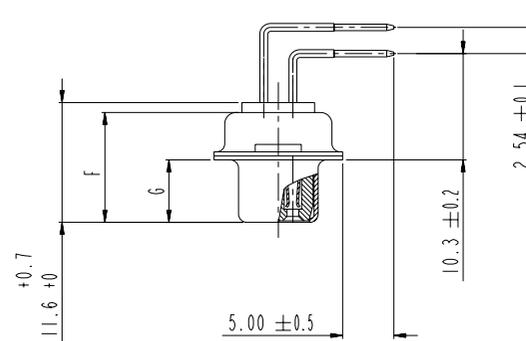
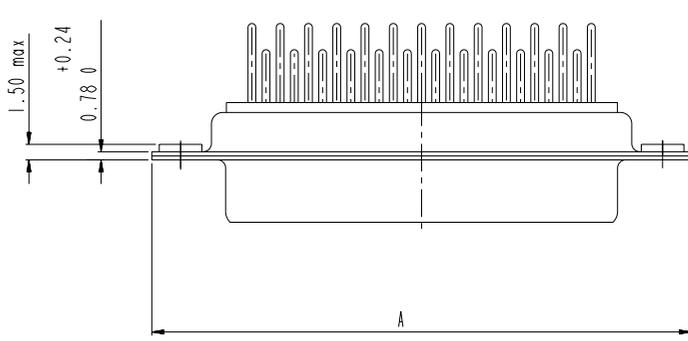
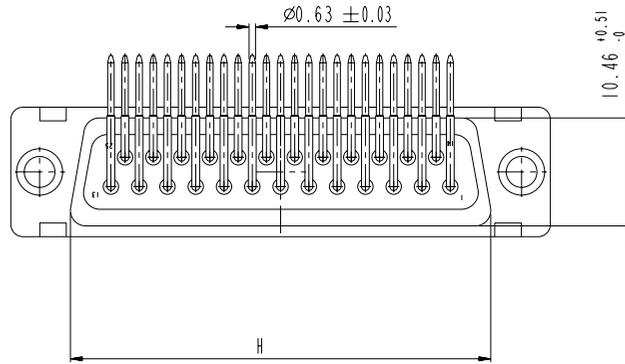
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www.fciconnect.com		surface - ISO 1302	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr M PESSON	2006/11/14	ANGULAR	0.X ±0.3	size A2 Scale 2:1
Eng P LEGARE	2006/11/14	LINEAR	0.XX ±0.1	ECN LS08-0014
Chr P LEGARE	2006/11/14	Ø ±0.2	0.XXX ±0.05	
Appr P LEGARE	2006/11/14	Product family	Spec ref	
 <b>SUB FEMALE DM HE501 series</b> with right angle contact		ang no	C01-8637-1736	
catalog no		CUSTOMER		sheet 3 of 9

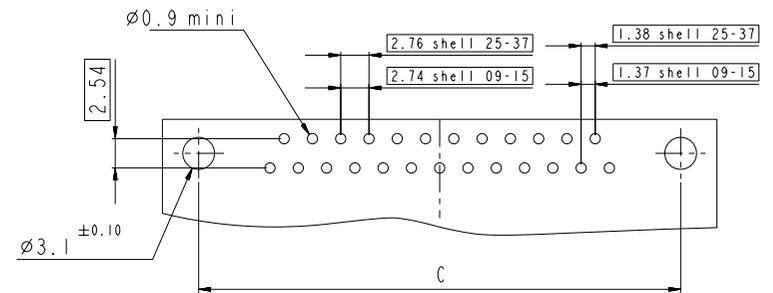
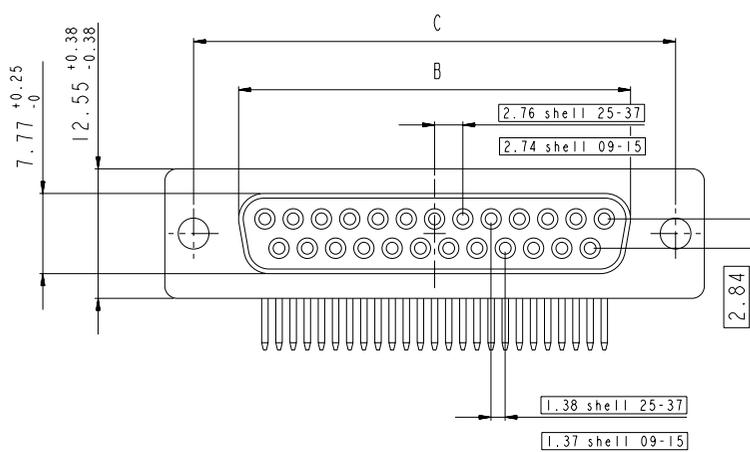
DIMENSION FOR SHELL E, A, B, C WITHOUT BRACKET

Dimensions are in millimeters

Shell size	Number of contacts	A <sup>+0.76</sup> <sub>-0</sub>	B <sup>+0.25</sup> <sub>-0</sub>	C ±0.12	F <sup>+0.57</sup> <sub>-0</sub>	G <sup>+0.25</sup> <sub>-0</sub>	H <sup>+0.51</sup> <sub>-0</sub>
E	09	30.43	16.21	24.99	10.64	6.05	19.02
A	15	38.76	24.54	33.32	10.64	6.05	27.25
B	25	52.65	38.25	47.04	10.64	6.05	41.02
C	37	68.94	54.71	63.50	10.64	6.05	57.45



LAYOUT DIMENSIONS



SCALE: 3

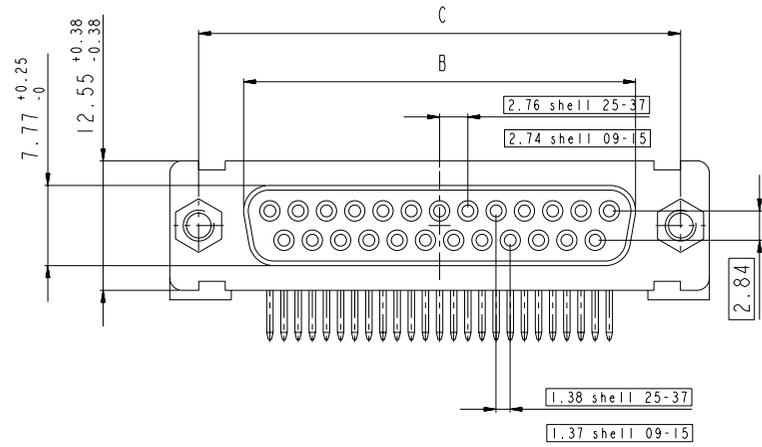
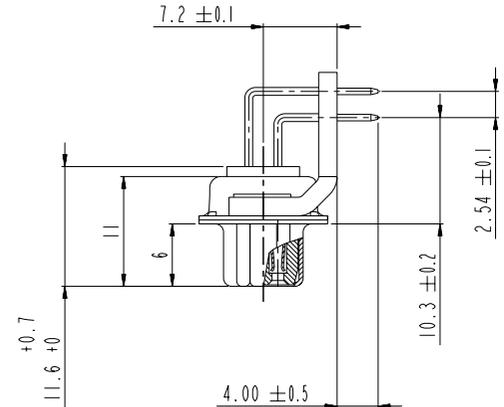
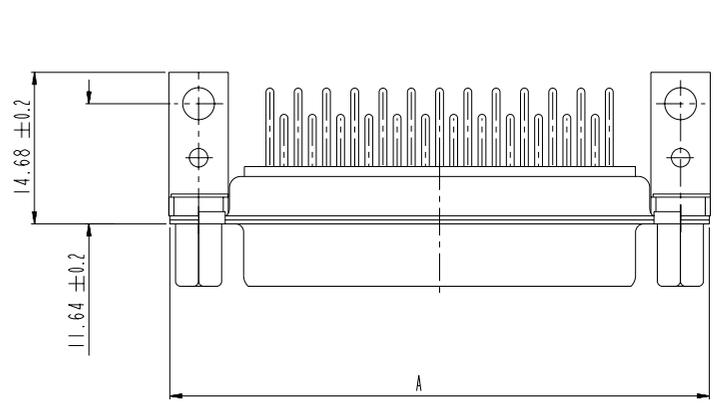
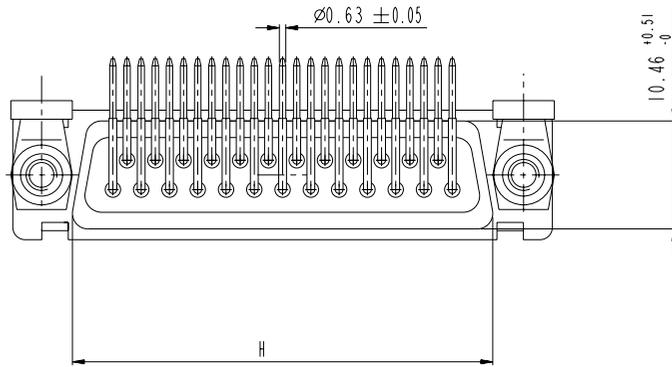
www.fciconnect.com		surface -	tolerance std	projection	mm
		ISO 1302	ISO 406 ISO 1101		
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2006/11/14	ANGULAR	0.X ±0.3	size A2 Scale 2:1
Eng	P LEGARE	2006/11/14	LINEAR	0.XX ±0.1	
Chr	P LEGARE	2006/11/14	0° ±2'	0.XXX ±0.05	ECN LS08-0014
Appr	P LEGARE	2006/11/14	Product family	-	Spec ref
		SUB FEMALE DM HE501 series		ang no C01-8637-1736	Rev. B
		with right angle contact		CUSTOMER	sheet 4 of 9
		catalog no			

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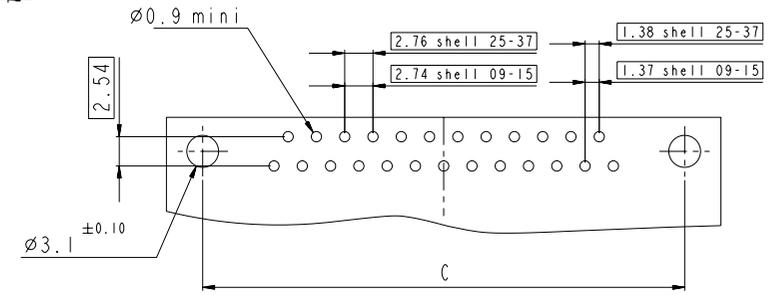
DIMENSION FOR SHELL E,A,B,C WITH METAL BRACKET

Dimensions are in millimeters

Shell size	Number of contacts	A <sup>+0.76</sup> / <sub>-0</sub>	B <sup>+0.25</sup> / <sub>-0</sub>	C $\pm 0.12$	F <sup>+0.57</sup> / <sub>-0</sub>	G <sup>+0.25</sup> / <sub>-0</sub>	H <sup>+0.51</sup> / <sub>-0</sub>
E	09	30.43	16.21	24.99	10.64	6.05	19.02
A	15	38.76	24.54	33.32	10.64	6.05	27.25
B	25	52.65	38.25	47.04	10.64	6.05	41.02
C	37	68.94	54.71	63.50	10.64	6.05	57.45



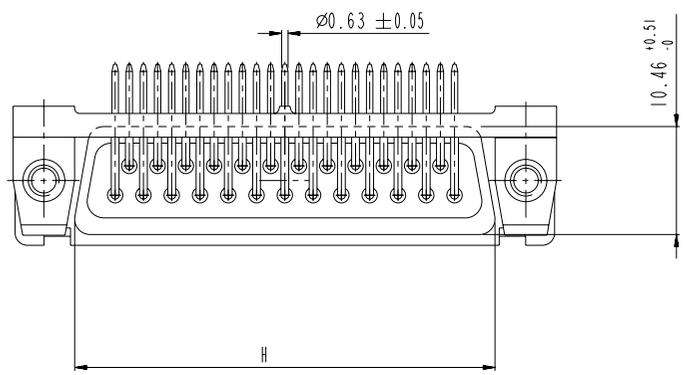
LAYOUT DIMENSIONS



SCALE: 3

www.fciconnect.com		surface - ISO 1302	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr M PESSON	2006/11/14	ANGULAR	0.X $\pm 0.3$	size A2 Scale 2:1
Eng P LEGARE	2006/11/14	LINEAR	0.XX $\pm 0.1$	ECN LS08-0014
Chr P LEGARE	2006/11/14	$\varnothing \pm z$	0.XXX $\pm 0.05$	Spec ref
Appr P LEGARE	2006/11/14	Product family		
SUB FEMALE DM HE501 series		ang no	C01-8637-1736	Rev. B
with right angle contact		catalog no	CUSTOMER	sheet 5 of 9

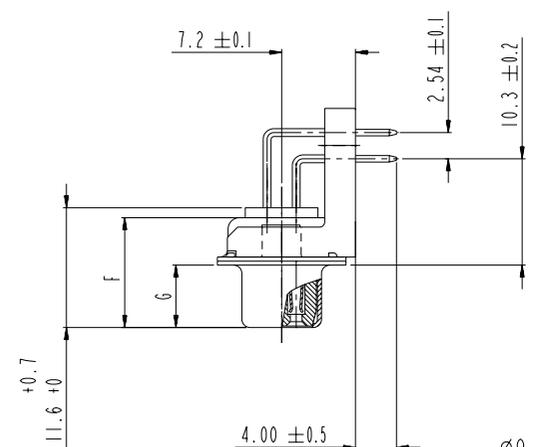
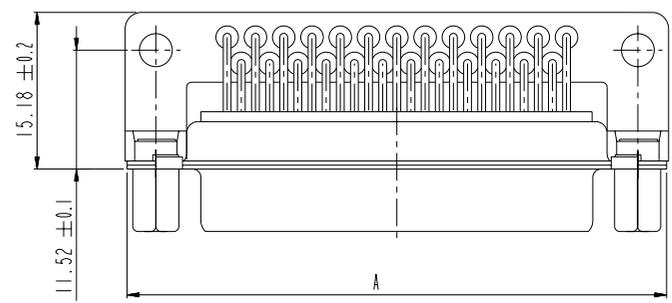
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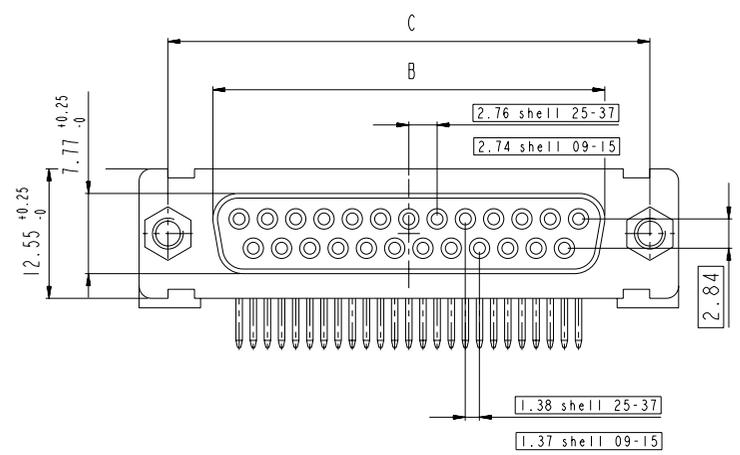
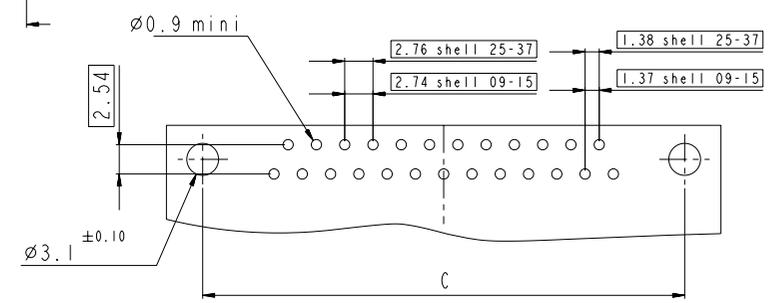
DIMENSIONS FOR SHELL E,A,B,C WITH PLASTIC BRACKET

Dimensions are in millimeters

Shell size	Number of contacts	A $^{+0.76}_{-0}$	B $^{+0.25}_{-0}$	C $\pm 0.12$	F $^{+0.57}_{-0}$	G $^{+0.25}_{-0}$	H $^{+0.51}_{-0}$
E	09	30.43	16.21	24.99	10.64	6.05	19.02
A	15	38.76	24.54	33.32	10.64	6.05	27.25
B	25	52.65	38.25	47.04	10.64	6.05	41.02
C	37	68.94	54.71	63.50	10.64	6.05	57.45



LAYOUT DIMENSIONS



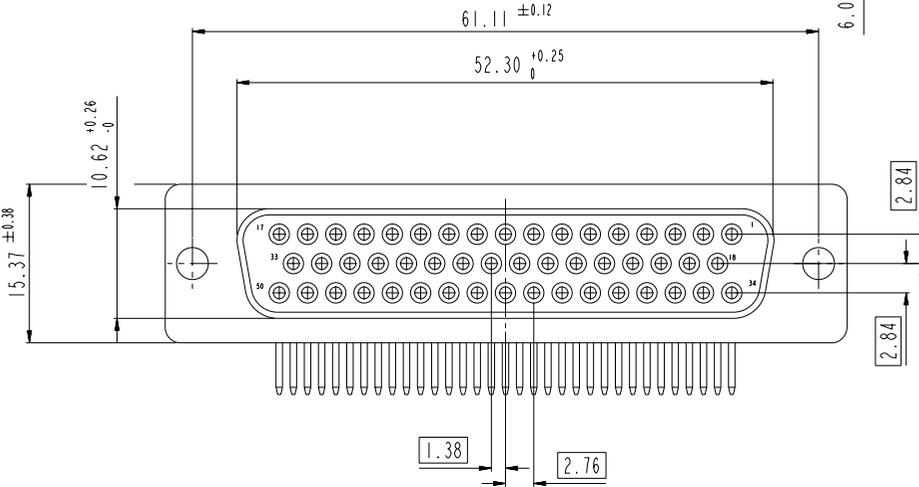
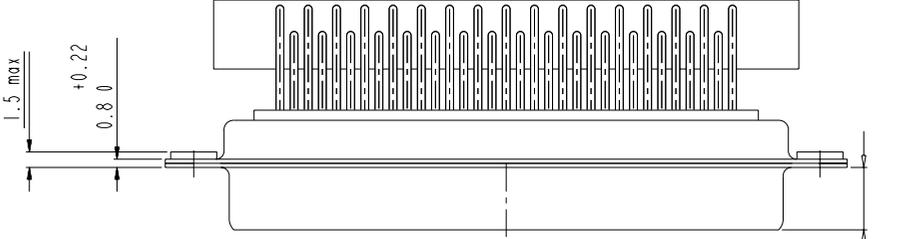
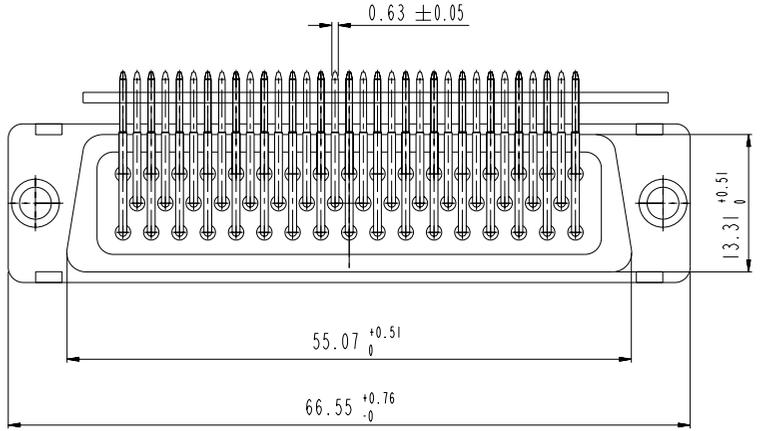
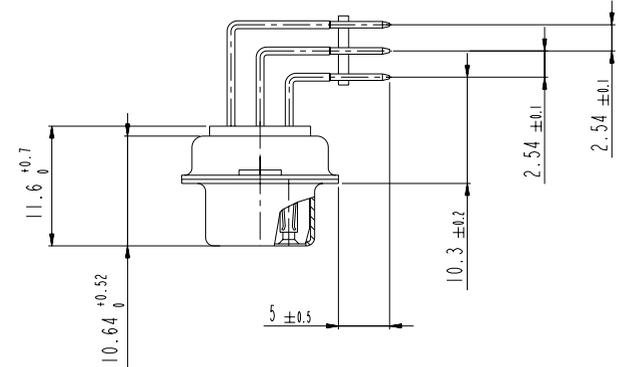
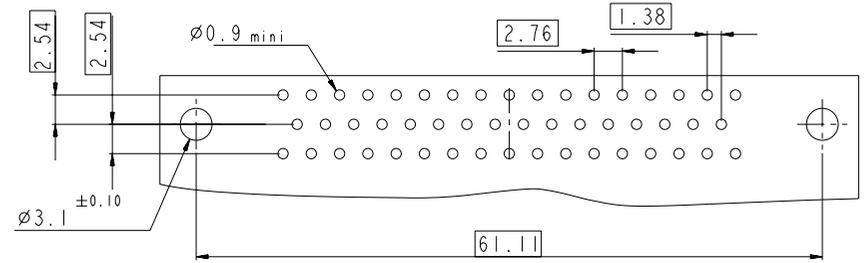
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www.fciconnect.com		surface -	tolerance std	projection	mm
		ISO 1302	ISO 406 ISO 1101		
		TOLERANCES UNLESS OTHERWISE SPECIFIED			
Dr	M PESSON	2006/11/14	ANGULAR	0.X	$\pm 0.3$
Eng	P LEGARE	2006/11/14	LINEAR	0.XX	$\pm 0.1$
Chr	P LEGARE	2006/11/14	$\varnothing \pm z$	0.XXX	$\pm 0.05$
Appr	P LEGARE	2006/11/14	Product family	-	Spec ref
SUB FEMALE DM HE501 series				ang no	C01-8637-1736
with right angle contact				Rev.	B
catalog no				CUSTOMER	sheet 6 of 9

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DIMENSIONS FOR SHELL SIZE D WITHOUT BRACKET (50 CONTACTS)

LAYOUT DIMENSIONS



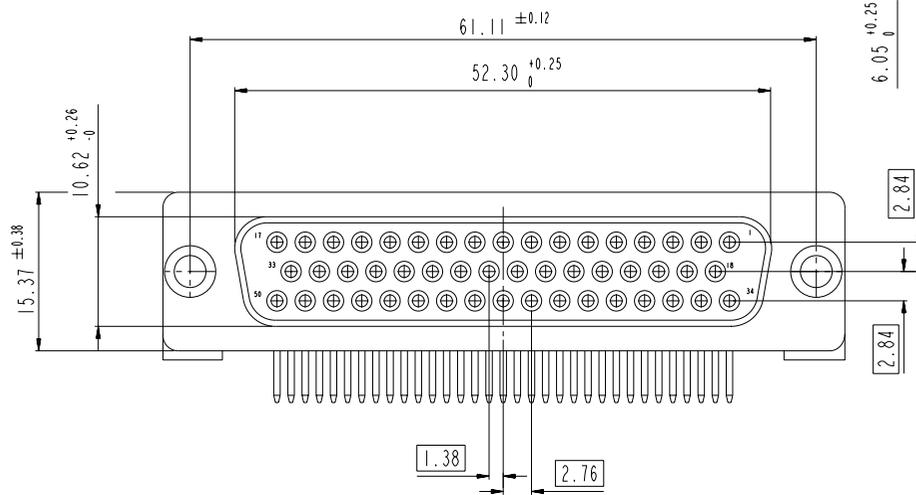
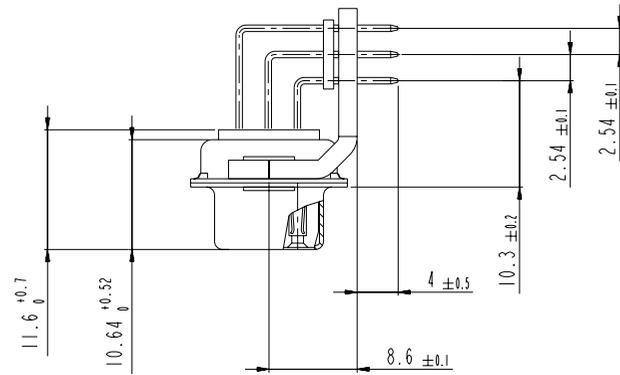
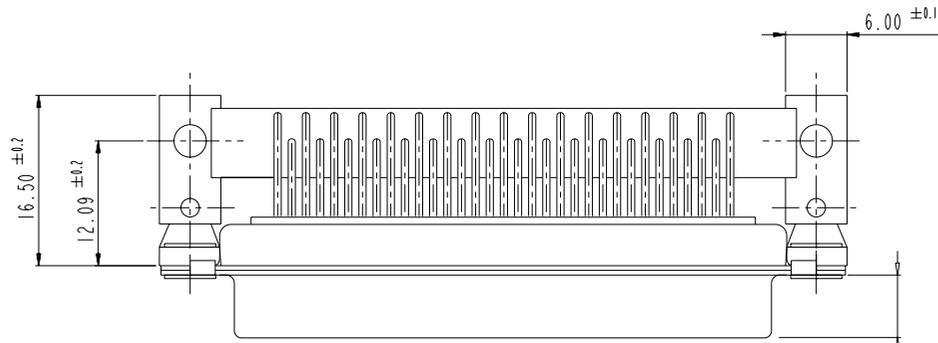
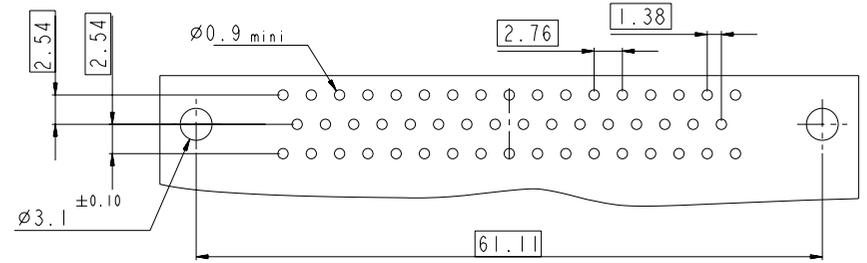
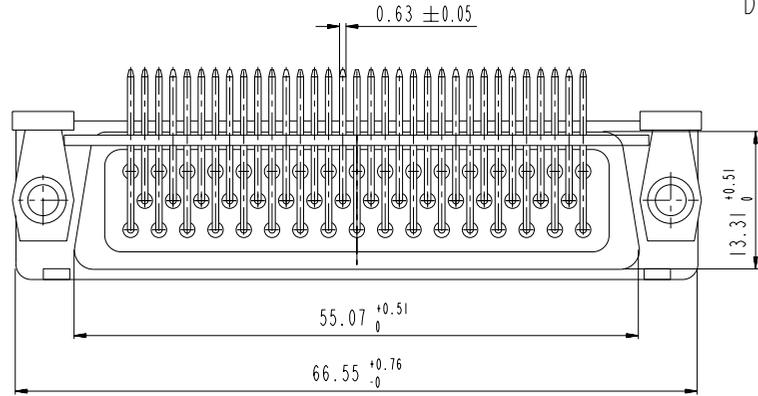
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www.fciconnect.com		surface - ISO 1302	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr M PESSON	2006/11/14	ANGULAR	0.X ±0.3	size A2
Eng P LEGARE	2006/11/14	LINEAR	0.XX ±0.1	Scale 2:1
Chr P LEGARE	2006/11/14	0° ±2°	0.XXX ±0.05	ECN LS08-0014
Appr P LEGARE	2006/11/14	Product family	Spec ref	
SUB FEMALE DM HE501 series		ang no	C01-8637-1736	
with right angle contact		Rev.	B	
catalog no		CUSTOMER	sheet 7 of 9	

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DIMENSIONS FOR SHELL SIZE D WITH METAL BRACKET (50 CONTACTS)

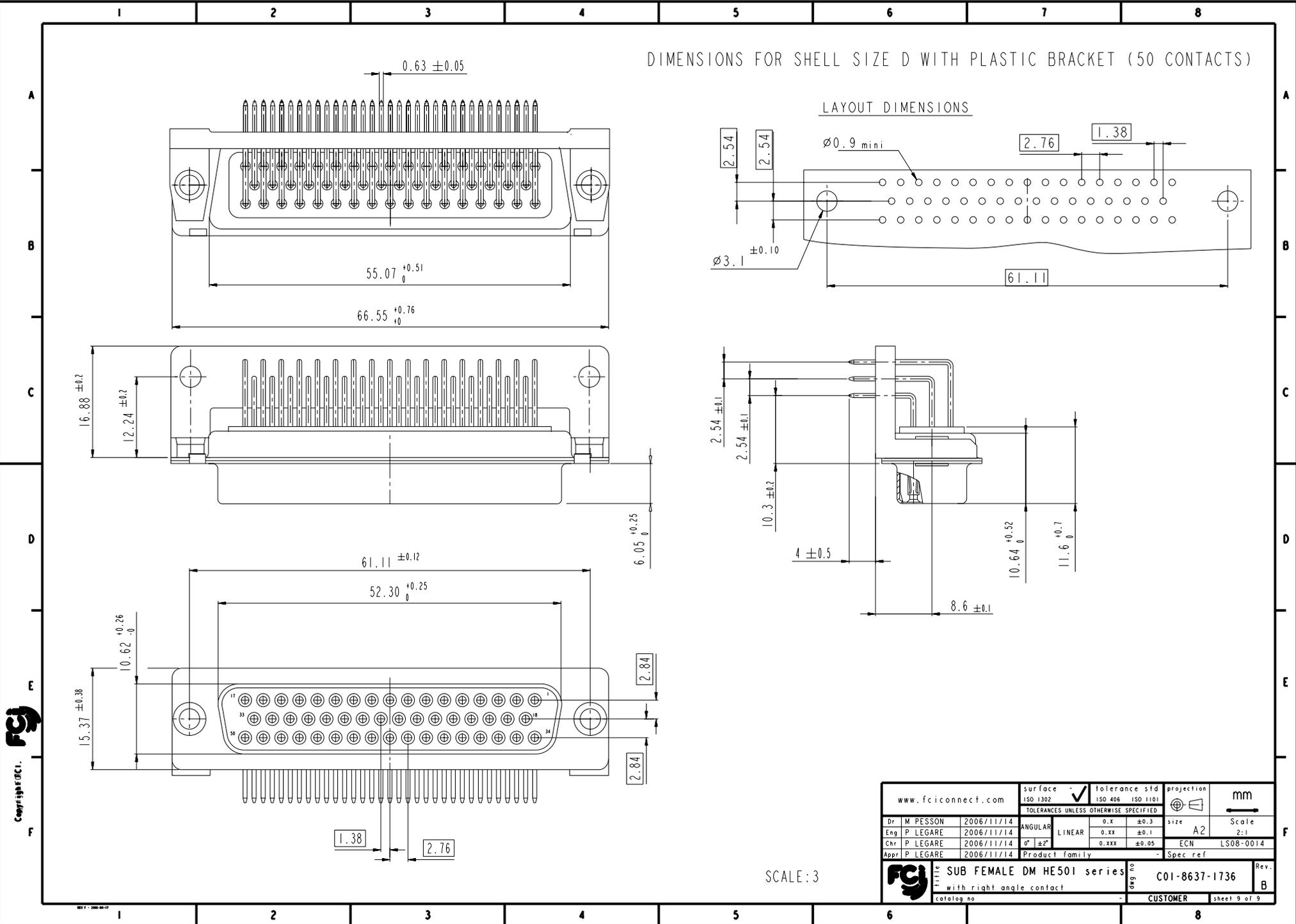
LAYOUT DIMENSIONS



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www.fciconnect.com		surface - ISO 1302 ✓	tolerance std ISO 406 ISO 1101	projection mm
		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr	M PESSON	2006/11/14	ANGULAR	0.X ± 0.3
Eng	P LEGARE	2006/11/14	LINEAR	0.XX ± 0.1
Chr	P LEGARE	2006/11/14	0° ± 2°	0.XXX ± 0.05
Appr	P LEGARE	2006/11/14	Product family	Spec ref
TITLE SUB FEMALE DM HE501 series with right angle contact catalog no		ang no C01-8637-1736		Rev. B
CUSTOMER			sheet 8 of 9	



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		TOLERANCES UNLESS OTHERWISE SPECIFIED		
Dr M PESSON	2006/11/14	ANGULAR	0.X ±0.3	size A2 Scale 2:1
Eng P LEGARE	2006/11/14	LINEAR	0.XX ±0.1	ECN LS08-0014
Chr P LEGARE	2006/11/14	° ±2'	0.XXX ±0.05	Spec ref
Appr P LEGARE	2006/11/14	Product family		
<b>TITLE</b> SUB FEMALE DM HE501 series with right angle contact catalog no		ang no	C01-8637-1736	Rev. B
CUSTOMER			sheet 9 of 9	

SCALE: 3

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

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